



Hunters Point Radiological Program Update

Hunters Point Naval Shipyard
BCT Meeting
October 27, 2011



Overview



Radiological Project Work Overview

- Current Project Map
- SS/SD Removal and Building Survey Update
 - Crisp Rd.
 - Parcel C
 - Parcel E 500-Series
 - Radioisotope Storage Vault Update
 - Parcel D-1
- Parcel B & G
- IR 7/18 Tech Memo Update



2011 Radiological Projects





Crisp Road/Parcel E Building and Site Surveys



Building 414	• CDPH collected confirmation samples on October 25
Site 701	• CDPH collected confirmation samples on October 25
Site 704	• CDPH collected confirmation samples on October 25
Building 707 Triangle	• Additional remediation work will continue with 500 Series contract
IR-04 & Site 807	• Draft FSS report under RASO review
Draft UC-3 (Crisp Rd.) RACR	• Anticipated submittal date of November 18



Parcel C Storm Drain & Sewer Removals

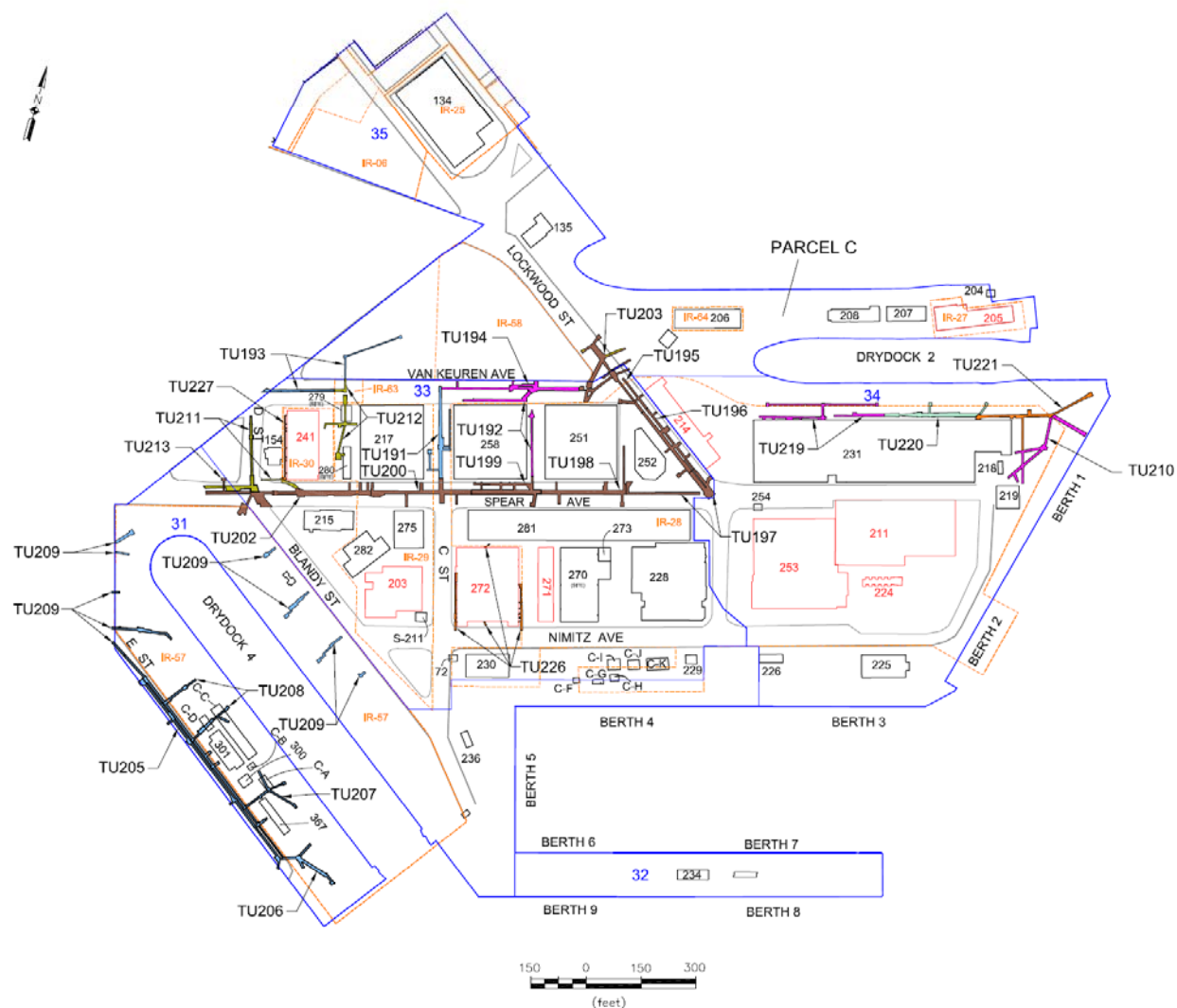


Excavated soil and pipe removal through October 19, 2011:

- 16,930 linear feet of SS/SD lines removed
 - 49% of the total 34,866-lf of Parcel C
- 30,135 cubic yards excavated



Parcel C Storm Drain & Sewer Removals



- ACTIVE TRENCH UNITS (QTY = 4)
- TRENCH UNITS THAT HAVE PASSED SYSTEMATIC SAMPLING BUT WAITING FOR OFFSITE (QTY = 3)
- TRENCH UNITS THAT HAVE PASSED OFFSITE AND SYSTEMATIC SAMPLING BUT WAITING FOR BACKFILL APPROVAL (QTY = 1)
- APPROVED FOR BACKFILL (QTY = 2)
- BACKFILLED/PAVED (QTY = 7)
- CURRENTLY BACKFILLING/PERFORMING COMPACTION (QTY = 9)



Parcel C Building and Site Surveys



Building 214

- Final FSS and RTCs under RASO review

Building 271

- Final FSS and RTCs under RASO review

North Pier

- Task Specific Plan issued October 14th

Building 272

- Anticipated submittal date for Draft FSS is November 4th

Buildings 203

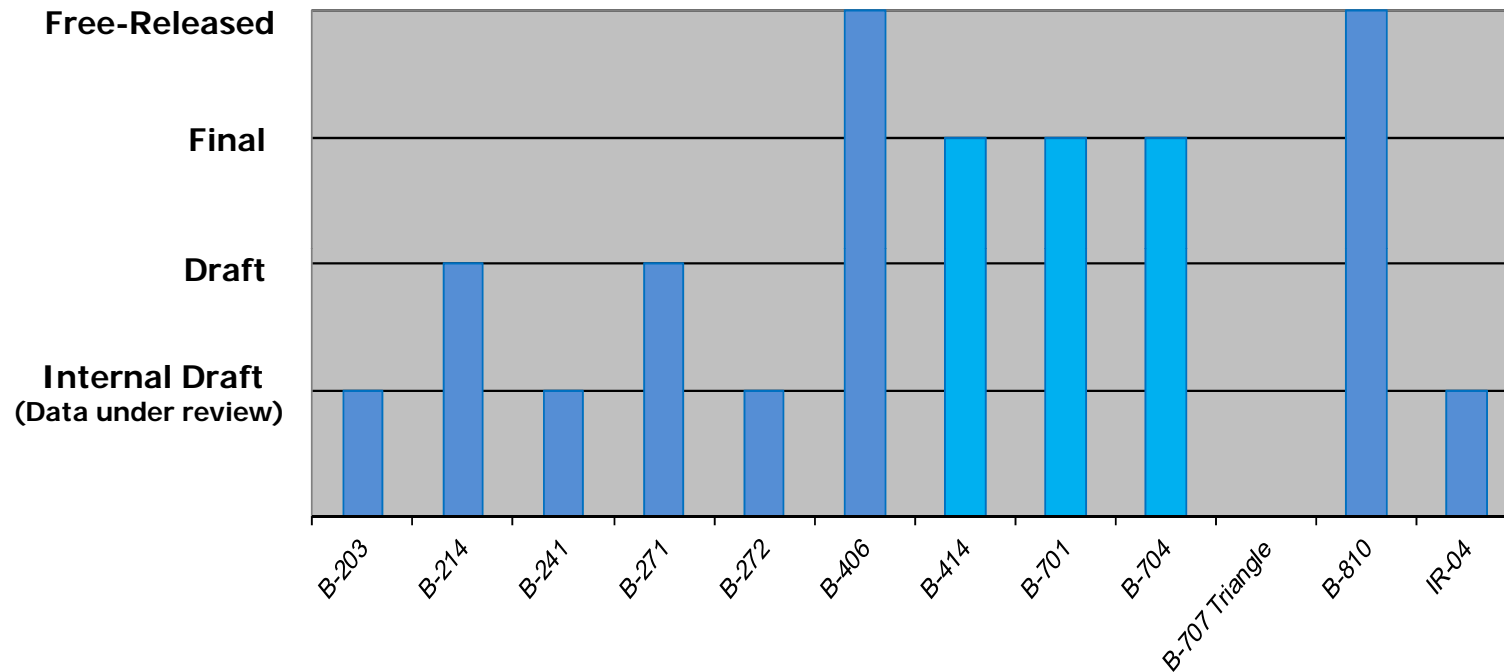
- Internal Draft FSS under review at RASO

Building 241

- Internal Draft FSS under review at RASO



Parcel C & Parcel E FSS Report Status



Waiting for concurrence for
Free-Release determination

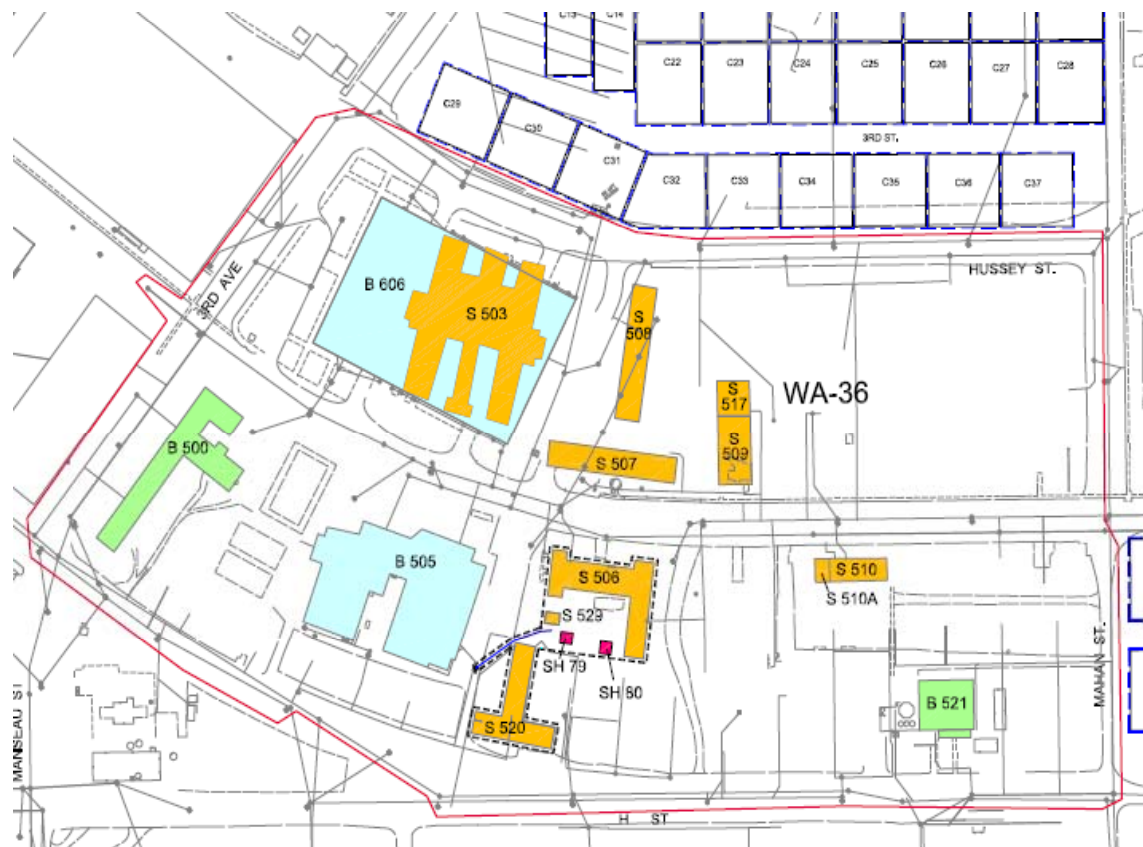




Impacted Building and Sites Parcel E 500 Series Area



- LEGEND**
- WORK AREA BOUNDARY (WA-36)
 - - - - - RADIOACTIVE MATERIAL AREA
 - STORM DRAIN LINE
 - NON-IMPACTED BUILDINGS
 - IMPACTED BUILDINGS
 - IMPACTED BUILDING SITES
 - IMPACTED SHACK SITES
 - KEY 2, 3 AND 4 SCREENING PADS





Parcel E 500 Series Building / Site Surveys



- RASO has approved Final TSPs
 - Building 500
 - Sites 503, 506, 507, 508, 509, 510/510A, 517, 520, and 529
 - Shacks 79 & 80
- Field Work
 - Continue radiological survey of the Former Building 503 site soil
 - 6,529 cubic yards of the 7,400 cubic yards of material have been surveyed and staged.
 - Completed material and equipment surveys in Building 521
 - Completed surveys of Building 500; removing and sampling SS/SD lines in building



Parcel E 500 Series Building / Site Surveys



- Field Work (continued)
 - Completed surveying of Site 509 and 517 concrete foundations
 - Removed and surveyed the concrete footprints of Former Buildings 506 and 520
 - Removed the lid from the Former Building 529 Isotope Storage Vault. Sampled sand & water. Surveyed the interior concrete walls and floor.



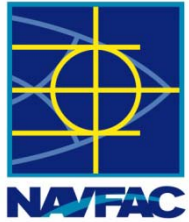
Former Building 529 Isotope Storage Vault



Hole drilled through cap
to collect sample of fill
sand prior to removing
cap



Hunters Point Shipyard, BCT, October 27, 2011



Former Building 529 Isotope Storage Vault



Removal and radiological scanning of concrete cap



Hunters Point Shipyard, BCT, October 27, 2011



Former Building 529 Isotope Storage Vault



Concrete cap removed,
fill sand exposed



Scanning and sampling of fill sand
prior to placement in LLRW bin



Former Building 529 Isotope Storage Vault



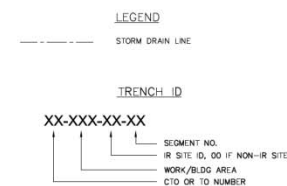
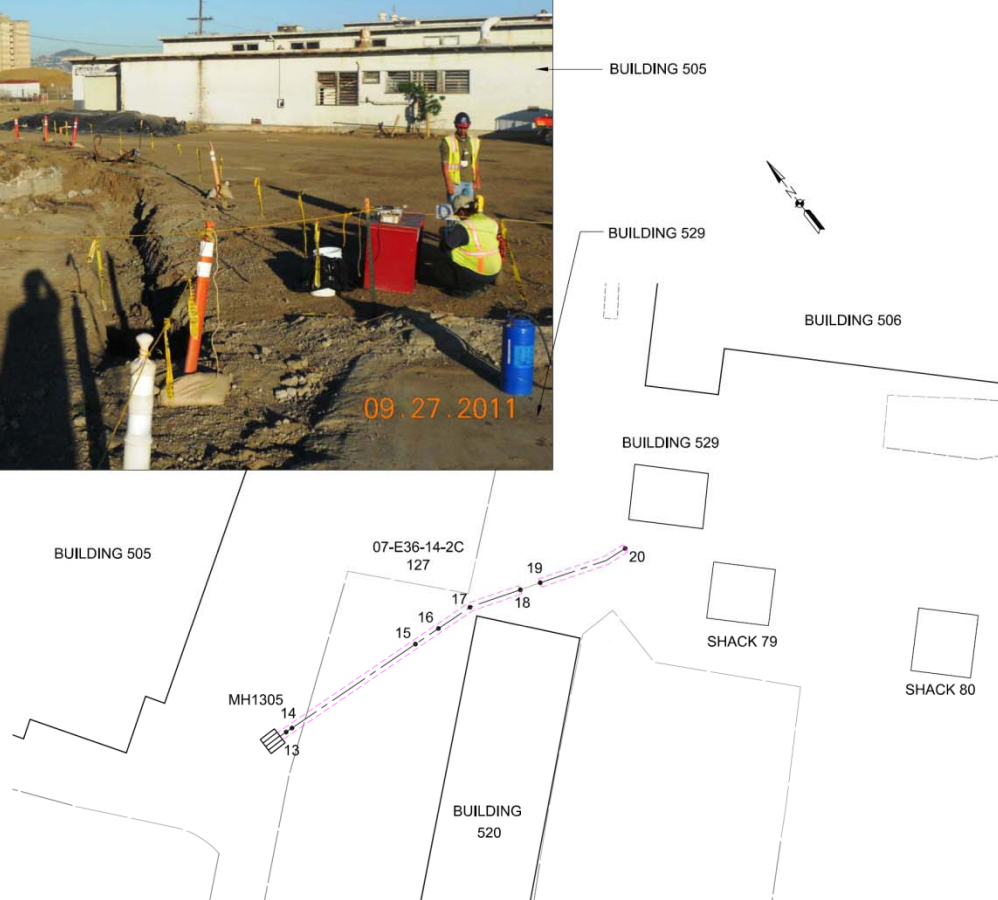
Sand at vault bottom



Scanning interior walls



Contamination from Former Building 529 Isotope Storage Vault Drain Pipe



Sample ID	Cs-137 (pCi/g)	Ra-226 (pCi/g)	T-Sr (pCi/g)
07-PEPI-0013-01	360.1	1.542	8.27 *
07-PEPI-0014-01	33.66	2.078	13.9 *
07-PEPI-0015-01	9.895	1.473	1.04 *
07-PEPI-0016-01	5.348	1.288	0.511 *
07-PEPI-0017-01	2.362	1.126	0.633 *
07-PEPI-0018-01	9.457	1.255	0.306
07-PEPI-0019-01	1.939	3.321	26.7 *
07-PEPI-0020-01	10.14	0.9723	2.25 *

* Samples has been submitted for Sr-90 analysis



BASE REALIGNMENT AND CLOSURE PROGRAM MANAGEMENT OFFICE WEST SAN DIEGO, CALIFORNIA EXECUTION PLAN - PARCEL E, 500 SERIES AREA RADIOLOGICAL REMEDIATION AND SUPPORT WORK AREA 36 RADIOACTIVE MATERIAL AREA HUNTERS POINT SHIPYARD, SAN FRANCISCO, CA	REVISION: AUTHOR: A. CRABTREE PROJECT NO: FILE: SEE BELOW	TETRA TECH EC, INC.
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Parcel E 500 Series Storm Drain & Sewer Removals



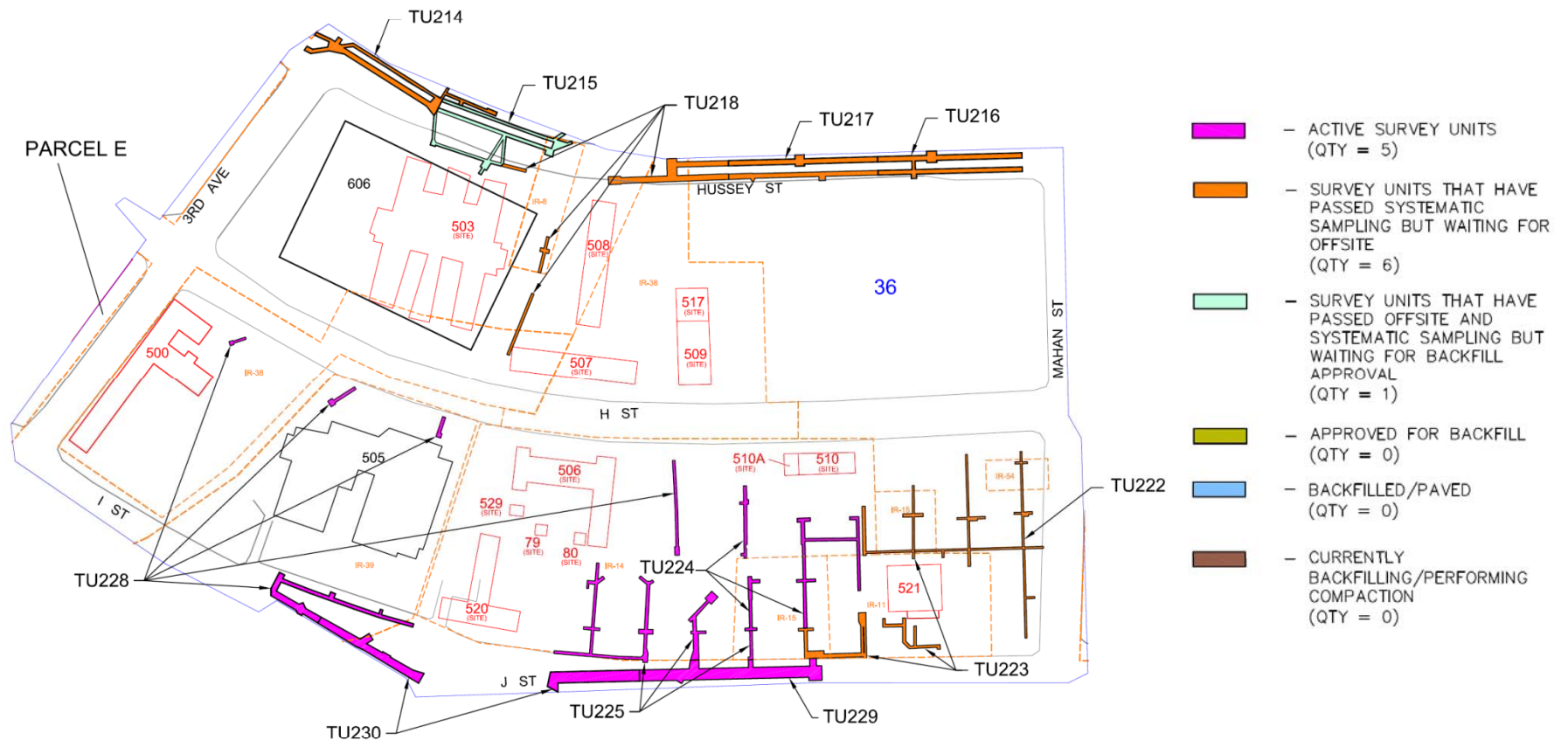
Excavated soil and pipe removal through October 19, 2011:

- 8,083 linear feet of SS/SD lines removed (in contract)
 - 49% of the 58,000 Parcel E SS/SD lines have been removed (Crisp Rd & E-500)



Parcel E

Storm Drain & Sewer Removals





Parcel D-1 Current Field Work Status



- Gun Mole Pier
 - 55 of 63 sampled survey units had no results above release criteria.
 - Currently remediating impacted Survey Units
 - Cs-137 range (0.121 to 1.160)
 - Sr-90 (0.452)
 - Developing plan for survey of concrete foundations and other concrete structures
 - Performing scan surveys and systematic soil sampling for the 13 Survey Units in the former RSY 2 Area footprint



Parcel D-1 Current Field Work Status



- South Pier
 - 6 of 13 survey units had no results above the release criteria
 - Awaiting sample results for 1 survey unit previously remediated
- Building 274 and 383
 - Developing internal draft FSS Report
- Building 313,313A & 322 sites - Surveyed and Sampled
 - Elevated levels of Cs-137 and Ra-226 above action limits in 4 survey units
 - Awaiting off-site sample results for 1 survey unit



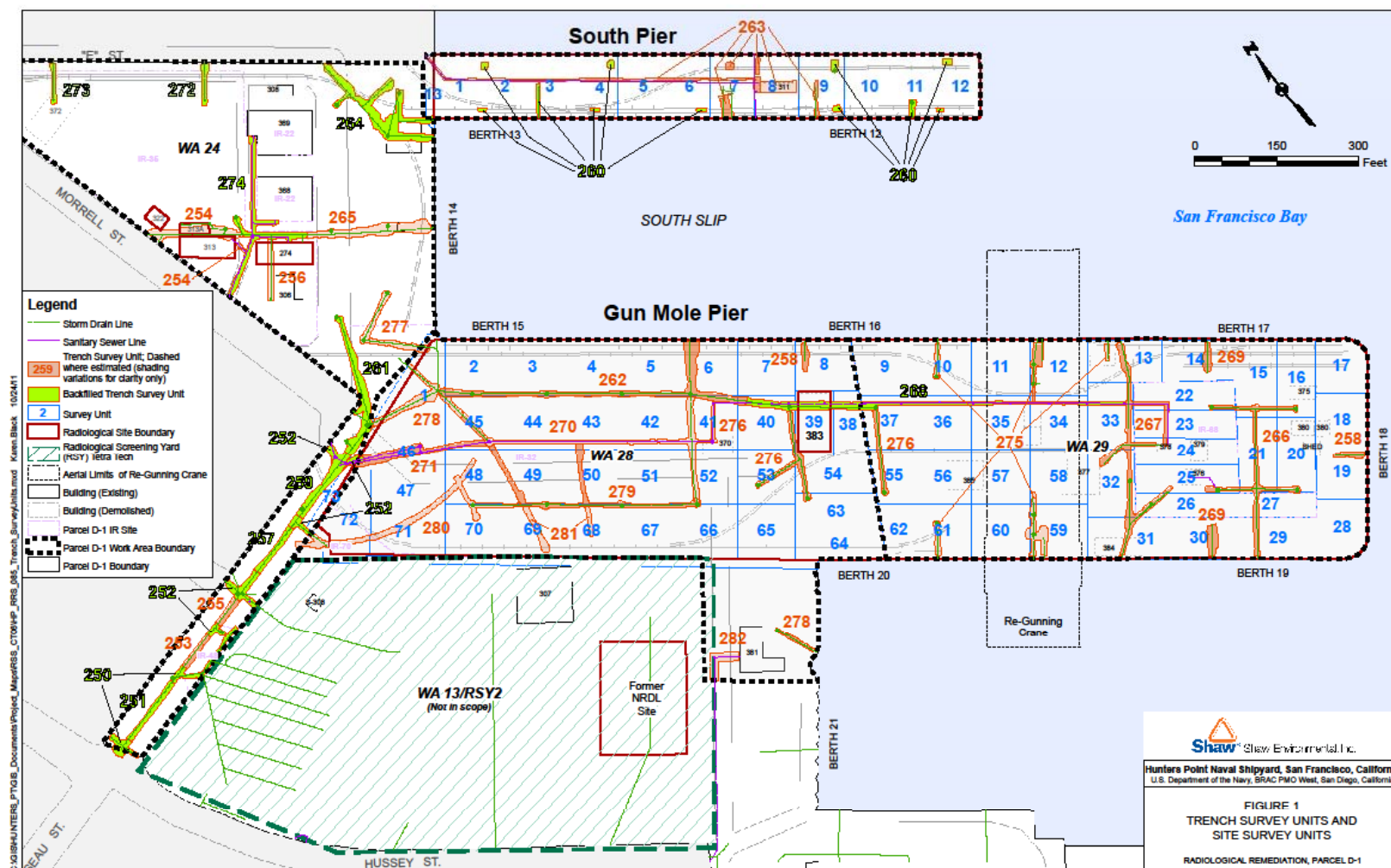
Parcel D-1 Current Field Work Status



- Storm Drain and Sanitary Sewer Removal
 - 96% complete (12,250 linear ft)
 - To date submitted 22 internal draft SUPRs and received approval on 17.
 - Completed trench backfill on 12 SUs (34% overall complete)



Parcel D-1 Overview





Status of Parcels B & G



- Parcel B
 - Draft Parcel B RACR submitted October 20
 - Building 140 Discharge Channel
 - CDPH performed Confirmation Survey on April 13
 - Final Building 140 Tech Memo
 - Conference call held with CDPH October 6
 - Awaiting free-release letter
- Parcel G
 - Final SUPR for TU-204 submitted October 25
 - Reviewing RTCs to Draft version
 - Final Parcel G RACR anticipated November 11



IR07/18 Modeling Update



- The 2nd version of the Draft Radiological Risk and Dose Modeling for Sites IR-7 and IR-18 is under Agency review
 - Submitted to Agencies on September 12, 2011



Comments, Questions, Concerns ???